

## SEQUENCE LISTING

<110> Blumenfeld, M., et al.

<120> Nucleic Acids Encoding Human TBC-1 Protein And Polymorphic Markers  
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<130> 46.US2.PCT

<150> US 60/095,653

<151> 1998-08-07

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ccaaaacaga aaaacagtga taactgtttt gctgagttcc cagacccttc ccaag atg 178
Met
1
gaa cca ata aca ttc aca gca agg aaa cat ctg ctt cct aac gag gtc 226
Glu Pro Ile Thr Phe Thr Ala Arg Lys His Leu Leu Pro Asn Glu Val
5 10 15
tcg gtg gat ttt ggc ctg cag ctg gtg ggc tcc ctg cct gtg cat tcc 274
Ser Val Asp Phe Gly Leu Gln Leu Val Gly Ser Leu Pro Val His Ser
20 25 30
ctg acc acc atg ccc atg ctg ccc tgg gtt gtg gct gag gtg cga aga 322
Leu Thr Thr Met Pro Met Leu Pro Trp Val Val Ala Glu Val Arg Arg
35 40 45
ctc agc agg cag tcc acc aga aag gaa cct gta acc aag caa gtc cgg 370
Leu Ser Arg Gln Ser Thr Arg Lys Glu Pro Val Thr Lys Gln Val Arg
50 55 60 65
ctt tgc gtt tca ccc tct gga ctg aga tgt gaa cct gag cca ggg aga 418
Leu Cys Val Ser Pro Ser Gly Leu Arg Cys Glu Pro Glu Pro Gly Arg
70 75 80
agt caa cag tgg gat ccc ctg atc tat tcc agc atc ttt gag tgc aag 466
Ser Gln Gln Trp Asp Pro Leu Ile Tyr Ser Ser Ile Phe Glu Cys Lys
85 90 95
cct cag cgt gtt cac aaa ctg att cac aac agt cat gac cca agt tac 514
Pro Gln Arg Val His Lys Leu Ile His Asn Ser His Asp Pro Ser Tyr
100 105 110
ttt gct tgt ctg att aag gaa gac gct gtc cac cgg cag agt atc tgc 562
Phe Ala Cys Leu Ile Lys Glu Asp Ala Val His Arg Gln Ser Ile Cys
115 120 125
tat gtg ttc aaa gcc gat gat caa aca aaa gtg cct gag atc atc agc 610
Tyr Val Phe Lys Ala Asp Asp Gln Thr Lys Val Pro Glu Ile Ile Ser
130 135 140 145
tcc atc cgt cag gcg ggg aag atc gcc cgg cag gag gag ctg cac tgc 658
Ser Ile Arg Gln Ala Gly Lys Ile Ala Arg Gln Glu Glu Leu His Cys
150 155 160
ccg tcc gag ttc gac gac acg ttt tcc aag aag ttc gag gtg ctc ttc 706

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Pro	Ser	Glu	Phe	Asp	Asp	Thr	Phe	Ser	Lys	Lys	Phe	Glu	Val	Leu	Phe		
			165					170					175				
tgc	ggc	cgc	gtg	acg	gtg	gcg	cac	aag	aag	gct	ccg	ccg	gcc	ctg	atc	754	
Cys	Gly	Arg	Val	Thr	Val	Ala	His	Lys	Lys	Ala	Pro	Pro	Ala	Leu	Ile		
		180					185					190					
gac	gag	tgc	atc	gag	aag	ttc	aat	cac	gtc	agc	ggc	agc	cgg	ggg	tcc	802	
Asp	Glu	Cys	Ile	Glu	Lys	Phe	Asn	His	Val	Ser	Gly	Ser	Arg	Gly	Ser		
	195					200					205						
gag	agc	ccc	cgc	ccc	aac	ccg	ccc	cat	gcc	gcg	ccc	aca	ggg	agc	cag	850	
Glu	Ser	Pro	Arg	Pro	Asn	Pro	Pro	His	Ala	Ala	Pro	Thr	Gly	Ser	Gln		
210					215					220					225		
gag	cct	gtg	cgc	agg	ccc	atg	cgc	aag	tcc	ttc	tcc	cag	ccc	ggc	ctg	898	
Glu	Pro	Val	Arg	Arg	Pro	Met	Arg	Lys	Ser	Phe	Ser	Gln	Pro	Gly	Leu		
			230						235					240			
cgc	tcg	ctg	gcc	ttt	agg	aag	gag	ctg	cag	gat	ggg	ggc	ctc	cga	agc	946	
Arg	Ser	Leu	Ala	Phe	Arg	Lys	Glu	Leu	Gln	Asp	Gly	Gly	Leu	Arg	Ser		
			245					250					255				
agc	ggc	ttc	ttc	agc	tcc	ttc	gag	gag	agc	gac	att	gag	aac	cac	ctc	994	
Ser	Gly	Phe	Phe	Ser	Ser	Phe	Glu	Glu	Ser	Asp	Ile	Glu	Asn	His	Leu		
		260				265					270						
att	agc	gga	cac	aat	att	gtg	cag	ccc	aca	gat	atc	gag	gaa	aat	cga	1042	
Ile	Ser	Gly	His	Asn	Ile	Val	Gln	Pro	Thr	Asp	Ile	Glu	Glu	Asn	Arg		
		275				280					285						
act	atg	ctc	ttc	acg	att	ggc	cag	tct	gaa	gtt	tac	ctc	atc	agt	cct	1090	
Thr	Met	Leu	Phe	Thr	Ile	Gly	Gln	Ser	Glu	Val	Tyr	Leu	Ile	Ser	Pro		
290					295					300					305		
gac	acc	aaa	aaa	ata	gca	ttg	gag	aaa	aat	ttt	aag	gag	ata	tcc	ttt	1138	
Asp	Thr	Lys	Lys	Ile	Ala	Leu	Glu	Lys	Asn	Phe	Lys	Glu	Ile	Ser	Phe		
				310					315					320			
tgc	tct	cag	ggc	atc	aga	cac	gtg	gac	cac	ttt	ggg	ttt	atc	tgt	cgg	1186	
Cys	Ser	Gln	Gly	Ile	Arg	His	Val	Asp	His	Phe	Gly	Phe	Ile	Cys	Arg		
			325					330					335				
gag	tct	tcc	gga	ggg	ggc	ggc	ttt	cat	ttt	gtc	tgt	tac	gtg	ttt	cag	1234	
Glu	Ser	Ser	Gly	Gly	Gly	Gly	Phe	His	Phe	Val	Cys	Tyr	Val	Phe	Gln		
			340			345						350					
tgc	aca	aat	gag	gct	ctg	gtt	gat	gaa	att	atg	atg	acc	ctg	aaa	cag	1282	
Cys	Thr	Asn	Glu	Ala	Leu	Val	Asp	Glu	Ile	Met	Met	Thr	Leu	Lys	Gln		
			355			360					365						
gcc	ttc	acg	gtg	gcc	gca	gtg	cag	cag	aca	gct	aag	gcg	cca	gcc	cag	1330	
Ala	Phe	Thr	Val	Ala	Ala	Val	Gln	Gln	Thr	Ala	Lys	Ala	Pro	Ala	Gln		
370					375					380					385		
ctg	tgt	gag	ggc	tgc	ccc	ctg	caa	agc	ctg	cac	aag	ctc	tgt	gag	agg	1378	
Leu	Cys	Glu	Gly	Cys	Pro	Leu	Gln	Ser	Leu	His	Lys	Leu	Cys	Glu	Arg		
				390				395						400			
ata	gag	gga	atg	aat	tct	tcc	aaa	aca	aaa	cta	gaa	ctg	caa	aag	cac	1426	
Ile	Glu	Gly	Met	Asn	Ser	Ser	Lys	Thr	Lys	Leu	Glu	Leu	Gln	Lys	His		
			405				410						415				
ctg	acg	aca	tta	acc	aat	cag	gag	cag	gcg	act	att	ttt	gaa	gag	gtt	1474	
Leu	Thr	Thr	Leu	Thr	Asn	Gln	Glu	Gln	Ala	Thr	Ile	Phe	Glu	Glu	Val		
			420			425						430					
cag	aaa	ttg	aga	ccg	aga	aat	gag	cag	cga	gag	aat	gaa	ttg	att	att	1522	
Gln	Lys	Leu	Arg	Pro	Arg	Asn	Glu	Gln	Arg	Glu	Asn	Glu	Leu	Ile	Ile		
			435			440					445						
tct	ttt	ctg	aga	tgt	tta	tat	gaa	gag	aaa	cag	aaa	gaa	cac	atc	cat	1570	
Ser	Phe	Leu	Arg	Cys	Leu	Tyr	Glu	Glu	Lys	Gln	Lys	Glu	His	Ile	His		
450					455				460					465			
att	ggg	gag	atg	aag	cag	aca	tcg	cag	atg	gca	gag	aat	att	gga		1618	
Ile	Gly	Glu	Met	Lys	Gln	Thr	Ser	Gln	Met	Ala	Ala	Glu	Asn	Ile	Gly		
				470				475					480				
agt	gaa	tta	cca	ccc	agt	gcc	act	cga	ttt	agg	cta	gat	atg	ctg	aaa	1666	
Ser	Glu	Leu	Pro	Pro	Ser	Ala	Thr	Arg	Phe	Arg	Leu	Asp	Met	Leu	Lys		

	485	490	495	
aac aaa gca aag aga tct tta aca gag tct tta gaa agt att ttg tcc				1714
Asn Lys Ala Lys Arg Ser Leu Thr Glu Ser Leu Glu Ser Ile Leu Ser				
500	505	510		
cgg ggt aat aaa gcc aga ggc ctg cag gaa cac tcc atc agt gtg gat				1762
Arg Gly Asn Lys Ala Arg Gly Leu Gln Glu His Ser Ile Ser Val Asp				
515	520	525		
ctg gat agc tcc ctg tct agt aca tta agt aac acc agc aaa gag cca				1810
Leu Asp Ser Ser Leu Ser Ser Thr Leu Ser Asn Thr Ser Lys Glu Pro				
530	535	540	545	
tct gtg tgt gaa aag gag gcc ttg ccc atc tct gag agc tcc ttt aag				1858
Ser Val Cys Glu Lys Glu Ala Leu Pro Ile Ser Glu Ser Ser Phe Lys				
550	555	560		
ctc ctc ggc tcc tcg gag gac ctg tcc agt gac tcg gag agt cat ctc				1906
Leu Leu Gly Ser Ser Glu Asp Leu Ser Ser Asp Ser Glu Ser His Leu				
565	570	575		
cca gaa gag cca gct ccg ctg tcg ccc cag cag gcc ttc agg agg cga				1954
Pro Glu Glu Pro Ala Pro Leu Ser Pro Gln Gln Ala Phe Arg Arg Arg				
580	585	590		
gca aac acc ctg agt cac ttc ccc atc gaa tgc cag gaa cct cca caa				2002
Ala Asn Thr Leu Ser His Phe Pro Ile Glu Cys Gln Glu Pro Pro Gln				
595	600	605		
cct gcc cgg ggg tcc ccg ggg gtt tcg caa agg aaa ctt atg agg tat				2050
Pro Ala Arg Gly Ser Pro Gly Val Ser Gln Arg Lys Leu Met Arg Tyr				
610	615	620	625	
cac tca gtg agc aca gag acg cct cat gaa cga aag gac ttt gaa tcc				2098
His Ser Val Ser Thr Glu Thr Pro His Glu Arg Lys Asp Phe Glu Ser				
630	635	640		
aaa gca aac cat ctt ggt gat tct ggt ggg act cct gtg aag acc cgg				2146
Lys Ala Asn His Leu Gly Asp Ser Gly Gly Thr Pro Val Lys Thr Arg				
645	650	655		
agg cat tcc tgg agg cag cag ata ttc ctc cga gta gcc acc ccg cag				2194
Arg His Ser Trp Arg Gln Gln Ile Phe Leu Arg Val Ala Thr Pro Gln				
660	665	670		
aag gcg tgc gat tct tcc agc aga tat gaa gat tat tca gag ctg gga				2242
Lys Ala Cys Asp Ser Ser Ser Arg Tyr Glu Asp Tyr Ser Glu Leu Gly				
675	680	685		
gag ctt ccc cca cga tct cct tta gaa cca gtt tgt gaa gat ggg ccc				2290
Glu Leu Pro Pro Arg Ser Pro Leu Glu Pro Val Cys Glu Asp Gly Pro				
690	695	700	705	
ttt ggc ccc cca cca gag gaa aag aaa agg aca tct cgt gag ctc cga				2338
Phe Gly Pro Pro Glu Glu Lys Lys Arg Thr Ser Arg Glu Leu Arg				
710	715	720		
gag ctg tgg caa aag gct att ctt caa cag ata ctg ctg ctt aga atg				2386
Glu Leu Trp Gln Lys Ala Ile Leu Gln Gln Ile Leu Leu Leu Arg Met				
725	730	735		
gag aag gaa aat cag aag ctc caa gcc tct gaa aat gat ttg ctg aac				2434
Glu Lys Glu Asn Gln Lys Leu Gln Ala Ser Glu Asn Asp Leu Leu Asn				
740	745	750		
aag cgc ctg aag ctc gat tat gaa gaa att act ccc tgt ctt aaa gaa				2482
Lys Arg Leu Lys Leu Asp Tyr Glu Glu Ile Thr Pro Cys Leu Lys Glu				
755	760	765		
gta act aca gtg tgg gaa aag atg ctt agc act cca gga aga tca aaa				2530
Val Thr Thr Val Trp Glu Lys Met Leu Ser Thr Pro Gly Arg Ser Lys				
770	775	780	785	
att aag ttt gac atg gaa aaa atg cac tcg gct gtt ggg caa ggt gtg				2578
Ile Lys Phe Asp Met Glu Lys Met His Ser Ala Val Gly Gln Gly Val				
790	795	800		
cca cgt cat cac cga ggt gaa atc tgg aaa ttt cta gct gag caa ttc				2626
Pro Arg His His Arg Gly Glu Ile Trp Lys Phe Leu Ala Glu Gln Phe				
805	810	815		

cac ctt aaa cac cag ttt ccc agc aaa cag cag cca aag gat gtg cca	2674
His Leu Lys His Gln Phe Pro Ser Lys Gln Gln Pro Lys Asp Val Pro	
820 825 830	
tac aaa gaa ctc tta aag cag ctg act tcc cag cag cat gcg att ctt	2722
Tyr Lys Glu Leu Leu Lys Gln Leu Thr Ser Gln Gln His Ala Ile Leu	
835 840 845	
att gac ctt ggg cga acc ttt cct aca cac cca tac ttc tct gcc cag	2770
Ile Asp Leu Gly Arg Thr Phe Pro Thr His Pro Tyr Phe Ser Ala Gln	
850 855 860 865	
ctt gga gca gga cag cta tcg ctt tac aac att ttg aag gcc tac tca	2818
Leu Gly Ala Gly Gln Leu Ser Leu Tyr Asn Ile Leu Lys Ala Tyr Ser	
870 875 880	
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Leu Leu Asp Gln Glu Val Gly Tyr Cys Gln Gly Leu Ser Phe Val Ala	
885 890 895	
ggc att ttg ctt ctt cat atg agt gag gaa gag gcg ttt aaa atg ctc	2914
Gly Ile Leu Leu Leu His Met Ser Glu Glu Ala Phe Lys Met Leu	
900 905 910	
aag ttt ctg atg ttt gac atg ggg ctg cgg aaa cag tat cgg cca gac	2962
Lys Phe Leu Met Phe Asp Met Gly Leu Arg Lys Gln Tyr Arg Pro Asp	
915 920 925	
atg att att tta cag atc cag atg tac cag ctc tcg agg ttg ctt cat	3010
Met Ile Ile Leu Gln Ile Gln Met Tyr Gln Leu Ser Arg Leu Leu His	
930 935 940 945	
gat tac cac aga gac ctc tac aat cac ctg gag gag cac gag atc ggc	3058
Asp Tyr His Arg Asp Leu Tyr Asn His Leu Glu Glu His Glu Ile Gly	
950 955 960	
ccc agc ctc tac gct gcc ccc tgg ttc ctc acc atg ttt gcc tca cag	3106
Pro Ser Leu Tyr Ala Ala Pro Trp Phe Leu Thr Met Phe Ala Ser Gln	
965 970 975	
ttc ccg ctg gga ttc gta gcc aga gtc ttt gat atg att ttt ctt cag	3154
Phe Pro Leu Gly Phe Val Ala Arg Val Phe Asp Met Ile Phe Leu Gln	
980 985 990	
gga aca gag gtc ata ttt aaa gtg gct tta agt ctg ttg gga agc cat	3202
Gly Thr Glu Val Ile Phe Lys Val Ala Leu Ser Leu Leu Gly Ser His	
995 1000 1005	
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Lys Pro Leu Ile Leu Gln His Glu Asn Leu Glu Thr Ile Val Asp Phe	
1010 1015 1020 1025	
ata aaa agc acg cta ccc aac ctt ggc ttg gta cag atg gaa aag acc	3298
Ile Lys Ser Thr Leu Pro Asn Leu Gly Leu Val Gln Met Glu Lys Thr	
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atc aat cag gta ttt gaa atg gac atc gct aaa cag tta caa gct tat	3346
Ile Asn Gln Val Phe Glu Met Asp Ile Ala Lys Gln Leu Gln Ala Tyr	
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gaa gtt gag tac cac gtc ctt caa gaa gaa ctt atc gat tcc tct cct	3394
Glu Val Glu Tyr His Val Leu Gln Glu Glu Leu Ile Asp Ser Ser Pro	
1060 1065 1070	
ctc agt gac aac caa aga atg gat aaa tta gag aaa acc aac agc agc	3442
Leu Ser Asp Asn Gln Arg Met Asp Lys Leu Glu Lys Thr Asn Ser Ser	
1075 1080 1085	
tta cgc aaa cag aac ctt gac ctc ctt gaa cag ttg cag gtg gca aat	3490
Leu Arg Lys Gln Asn Leu Asp Leu Leu Glu Gln Leu Gln Val Ala Asn	
1090 1095 1100 1105	
ggg agg atc caa agc ctt gag gcc acc att gag aag ctc ctg agc agt	3538
Gly Arg Ile Gln Ser Leu Glu Ala Thr Ile Glu Lys Leu Leu Ser Ser	
1110 1115 1120	
gag agc aag ctg aag cag gcc atg ctt acc tta gaa ctg gag cgg tcg	3586
Glu Ser Lys Leu Lys Gln Ala Met Leu Thr Leu Glu Leu Glu Arg Ser	
1125 1130 1135	
gcc ctg ctg cag acg gtg gag gag ctg cgg cgg cgg agc gca gag ccc	3634



Ala Leu Leu Gln Thr Val Glu Glu Leu Arg Arg Arg Ser Ala Glu Pro	
1140 1145 1150	
agc gac cgg gag cct gag tgc acg cag ccc gag ccc acg ggc gac tga	3682
Ser Asp Arg Glu Pro Glu Cys Thr Gln Pro Glu Pro Thr Gly Asp *	
1155 1160 1165	
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cagaagacgc tggaaggaga gaaggaagcg ggaagtgtgc ttctcagggg ggaaaccggc	3802
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aaaaaa	3988

&lt;210&gt; 5

&lt;211&gt; 1168

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 5

Met Glu Pro Ile Thr Phe Thr Ala Arg Lys His Leu Leu Pro Asn Glu	
1 5 10 15	
Val Ser Val Asp Phe Gly Leu Gln Leu Val Gly Ser Leu Pro Val His	
20 25 30	
Ser Leu Thr Thr Met Pro Met Leu Pro Trp Val Val Ala Glu Val Arg	
35 40 45	
Arg Leu Ser Arg Gln Ser Thr Arg Lys Glu Pro Val Thr Lys Gln Val	
50 55 60	
Arg Leu Cys Val Ser Pro Ser Gly Leu Arg Cys Glu Pro Glu Pro Gly	
65 70 75 80	
Arg Ser Gln Gln Trp Asp Pro Leu Ile Tyr Ser Ser Ile Phe Glu Cys	
85 90 95	
Lys Pro Gln Arg Val His Lys Leu Ile His Asn Ser His Asp Pro Ser	
100 105 110	
Tyr Phe Ala Cys Leu Ile Lys Glu Asp Ala Val His Arg Gln Ser Ile	
115 120 125	
Cys Tyr Val Phe Lys Ala Asp Asp Gln Thr Lys Val Pro Glu Ile Ile	
130 135 140	
Ser Ser Ile Arg Gln Ala Gly Lys Ile Ala Arg Gln Glu Glu Leu His	
145 150 155 160	
Cys Pro Ser Glu Phe Asp Asp Thr Phe Ser Lys Lys Phe Glu Val Leu	
165 170 175	
Phe Cys Gly Arg Val Thr Val Ala His Lys Lys Ala Pro Pro Ala Leu	
180 185 190	
Ile Asp Glu Cys Ile Glu Lys Phe Asn His Val Ser Gly Ser Arg Gly	
195 200 205	
Ser Glu Ser Pro Arg Pro Asn Pro Pro His Ala Ala Pro Thr Gly Ser	
210 215 220	
Gln Glu Pro Val Arg Arg Pro Met Arg Lys Ser Phe Ser Gln Pro Gly	
225 230 235 240	
Leu Arg Ser Leu Ala Phe Arg Lys Glu Leu Gln Asp Gly Gly Leu Arg	
245 250 255	
Ser Ser Gly Phe Phe Ser Ser Phe Glu Glu Ser Asp Ile Glu Asn His	
260 265 270	
Leu Ile Ser Gly His Asn Ile Val Gln Pro Thr Asp Ile Glu Glu Asn	
275 280 285	
Arg Thr Met Leu Phe Thr Ile Gly Gln Ser Glu Val Tyr Leu Ile Ser	
290 295 300	
Pro Asp Thr Lys Lys Ile Ala Leu Glu Lys Asn Phe Lys Glu Ile Ser	
305 310 315 320	
Phe Cys Ser Gln Gly Ile Arg His Val Asp His Phe Gly Phe Ile Cys	
325 330 335	
Arg Glu Ser Ser Gly Gly Gly Gly Phe His Phe Val Cys Tyr Val Phe	

340 345 350  
 Gln Cys Thr Asn Glu Ala Leu Val Asp Glu Ile Met Met Thr Leu Lys  
 355 360 365  
 Gln Ala Phe Thr Val Ala Ala Val Gln Gln Thr Ala Lys Ala Pro Ala  
 370 375 380  
 Gln Leu Cys Glu Gly Cys Pro Leu Gln Ser Leu His Lys Leu Cys Glu  
 385 390 395 400  
 Arg Ile Glu Gly Met Asn Ser Ser Lys Thr Lys Leu Glu Leu Gln Lys  
 405 410 415  
 His Leu Thr Thr Leu Thr Asn Gln Glu Gln Ala Thr Ile Phe Glu Glu  
 420 425 430  
 Val Gln Lys Leu Arg Pro Arg Asn Glu Gln Arg Glu Asn Glu Leu Ile  
 435 440 445  
 Ile Ser Phe Leu Arg Cys Leu Tyr Glu Glu Lys Gln Lys Glu His Ile  
 450 455 460  
 His Ile Gly Glu Met Lys Gln Thr Ser Gln Met Ala Ala Glu Asn Ile  
 465 470 475 480  
 Gly Ser Glu Leu Pro Pro Ser Ala Thr Arg Phe Arg Leu Asp Met Leu  
 485 490 495  
 Lys Asn Lys Ala Lys Arg Ser Leu Thr Glu Ser Leu Glu Ser Ile Leu  
 500 505 510  
 Ser Arg Gly Asn Lys Ala Arg Gly Leu Gln Glu His Ser Ile Ser Val  
 515 520 525  
 Asp Leu Asp Ser Ser Leu Ser Ser Thr Leu Ser Asn Thr Ser Lys Glu  
 530 535 540  
 Pro Ser Val Cys Glu Lys Glu Ala Leu Pro Ile Ser Glu Ser Ser Phe  
 545 550 555 560  
 Lys Leu Leu Gly Ser Ser Glu Asp Leu Ser Ser Asp Ser Glu Ser His  
 565 570 575  
 Leu Pro Glu Glu Pro Ala Pro Leu Ser Pro Gln Gln Ala Phe Arg Arg  
 580 585 590  
 Arg Ala Asn Thr Leu Ser His Phe Pro Ile Glu Cys Gln Glu Pro Pro  
 595 600 605  
 Gln Pro Ala Arg Gly Ser Pro Gly Val Ser Gln Arg Lys Leu Met Arg  
 610 615 620  
 Tyr His Ser Val Ser Thr Glu Thr Pro His Glu Arg Lys Asp Phe Glu  
 625 630 635 640  
 Ser Lys Ala Asn His Leu Gly Asp Ser Gly Gly Thr Pro Val Lys Thr  
 645 650 655  
 Arg Arg His Ser Trp Arg Gln Gln Ile Phe Leu Arg Val Ala Thr Pro  
 660 665 670  
 Gln Lys Ala Cys Asp Ser Ser Ser Arg Tyr Glu Asp Tyr Ser Glu Leu  
 675 680 685  
 Gly Glu Leu Pro Pro Arg Ser Pro Leu Glu Pro Val Cys Glu Asp Gly  
 690 695 700  
 Pro Phe Gly Pro Pro Pro Glu Glu Lys Lys Arg Thr Ser Arg Glu Leu  
 705 710 715 720  
 Arg Glu Leu Trp Gln Lys Ala Ile Leu Gln Gln Ile Leu Leu Leu Arg  
 725 730 735  
 Met Glu Lys Glu Asn Gln Lys Leu Gln Ala Ser Glu Asn Asp Leu Leu  
 740 745 750  
 Asn Lys Arg Leu Lys Leu Asp Tyr Glu Glu Ile Thr Pro Cys Leu Lys  
 755 760 765  
 Glu Val Thr Thr Val Trp Glu Lys Met Leu Ser Thr Pro Gly Arg Ser  
 770 775 780  
 Lys Ile Lys Phe Asp Met Glu Lys Met His Ser Ala Val Gly Gln Gly  
 785 790 795 800  
 Val Pro Arg His His Arg Gly Glu Ile Trp Lys Phe Leu Ala Glu Gln  
 805 810 815  
 Phe His Leu Lys His Gln Phe Pro Ser Lys Gln Gln Pro Lys Asp Val  
 820 825 830

Pro Tyr Lys Glu Leu Leu Lys Gln Leu Thr Ser Gln Gln His Ala Ile  
           835                                  840                                  845  
 Leu Ile Asp Leu Gly Arg Thr Phe Pro Thr His Pro Tyr Phe Ser Ala  
           850                                  855                                  860  
 Gln Leu Gly Ala Gly Gln Leu Ser Leu Tyr Asn Ile Leu Lys Ala Tyr  
           865                                  870                                  875                                  880  
 Ser Leu Leu Asp Gln Glu Val Gly Tyr Cys Gln Gly Leu Ser Phe Val  
                                   885                                  890                                  895  
 Ala Gly Ile Leu Leu Leu His Met Ser Glu Glu Glu Ala Phe Lys Met  
                                   900                                  905                                  910  
 Leu Lys Phe Leu Met Phe Asp Met Gly Leu Arg Lys Gln Tyr Arg Pro  
                                   915                                  920                                  925  
 Asp Met Ile Ile Leu Gln Ile Gln Met Tyr Gln Leu Ser Arg Leu Leu  
                                   930                                  935                                  940  
 His Asp Tyr His Arg Asp Leu Tyr Asn His Leu Glu Glu His Glu Ile  
                                   945                                  950                                  955                                  960  
 Gly Pro Ser Leu Tyr Ala Ala Pro Trp Phe Leu Thr Met Phe Ala Ser  
                                   965                                  970                                  975  
 Gln Phe Pro Leu Gly Phe Val Ala Arg Val Phe Asp Met Ile Phe Leu  
                                   980                                  985                                  990  
 Gln Gly Thr Glu Val Ile Phe Lys Val Ala Leu Ser Leu Leu Gly Ser  
                                   995                                  1000                                  1005  
 His Lys Pro Leu Ile Leu Gln His Glu Asn Leu Glu Thr Ile Val Asp  
                                   1010                                  1015                                  1020  
 Phe Ile Lys Ser Thr Leu Pro Asn Leu Gly Leu Val Gln Met Glu Lys  
                                   1025                                  1030                                  1035                                  1040  
 Thr Ile Asn Gln Val Phe Glu Met Asp Ile Ala Lys Gln Leu Gln Ala  
                                   1045                                  1050                                  1055  
 Tyr Glu Val Glu Tyr His Val Leu Gln Glu Glu Leu Ile Asp Ser Ser  
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 Asn Gly Arg Ile Gln Ser Leu Glu Ala Thr Ile Glu Lys Leu Leu Ser  
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 Ser Glu Ser Lys Leu Lys Gln Ala Met Leu Thr Leu Glu Leu Glu Arg  
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